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(71) Applicant (for all designated States except US): AUTODESK, INC. [US/US]; 111 McInnis Parkway, San Rafael, CA 94903 (US).

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(75) Inventor/Applicant (for US only): MEISENECKER, Robert [DE/DE]; Fliegenstr. 8, 80337 München (DE).

(74) Agent: DENDORFER, Claus; Wächtershäuser & Hartz, Weinstr. 8, 80333 München (DE).

(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

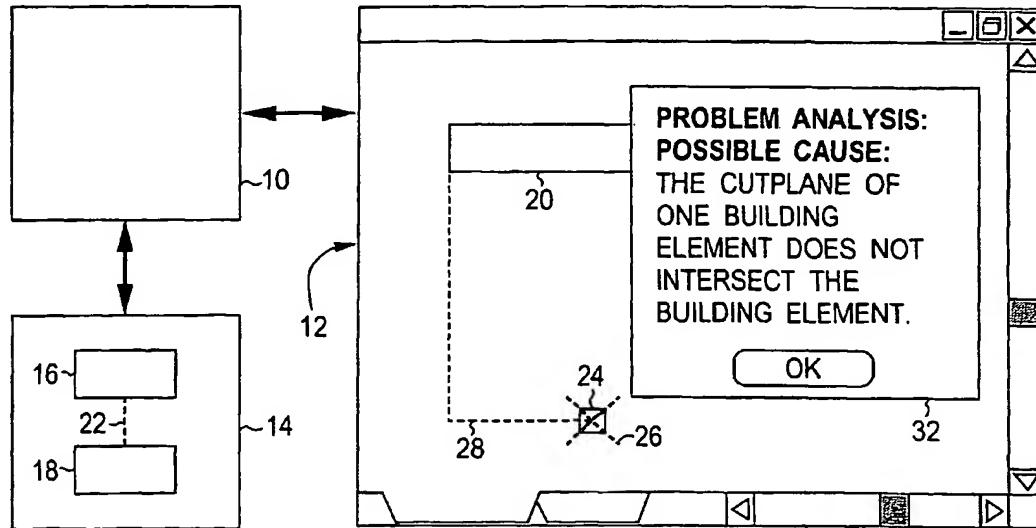
(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declaration under Rule 4.17:

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[Continued on next page]

(54) Title: PROBLEM SOLVING BY A CAD PROGRAM



WO 03/107277 A2

(57) Abstract: In a method for solving problems that are related to geometrical properties of objects processed by a CAD program, a possible problem related to a geometrical property of at least one object is identified, and an indicator symbol is displayed in a drawing window of the CAD program. The indicator symbol is shown in graphical association with at least one entity processed by the CAD program, the entity being related to the identified possible problem. A user action related to the indicator symbol is received, and problem solving assistance is provided to the user in response to the user action. A computer program product and an apparatus comprise corresponding features. The invention provides a way for solving problems related to geometrical properties of objects processed by a CAD program that minimizes workflow disruption even in cases where the problem cannot be solved in an entirely automatic way.



TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG)

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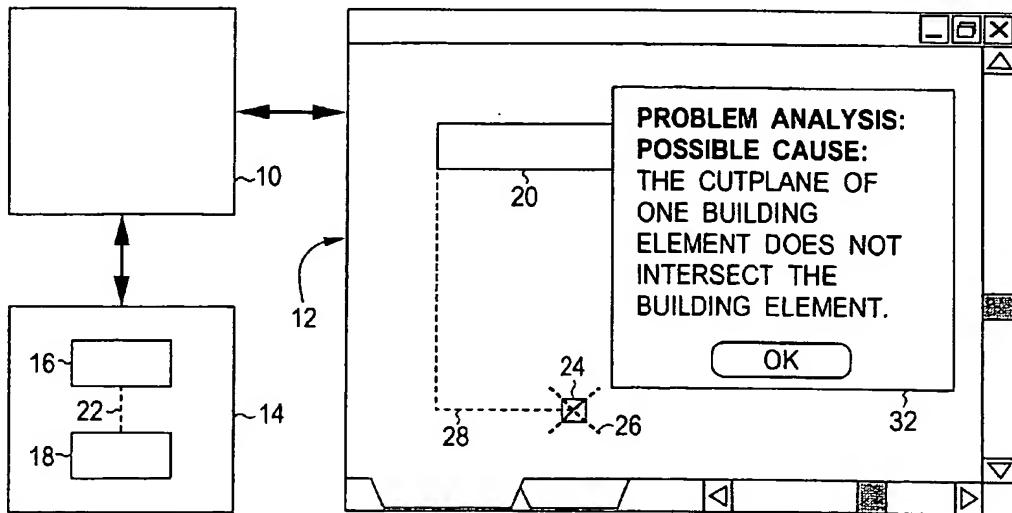
(84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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A. CLASSIFICATION OF SUBJECT MATTER
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B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 G06T

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, INSPEC, COMPENDEX

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>KRAUSE F-L ET AL ASSOCIATION FOR COMPUTING MACHINERY: "PROCESSING OF CAD-DATA - CONVERSION, VERIFICATION AND REPAIR" PROCEEDINGS OF THE FOURTH SYMPOSIUM ON SOLID MODELING AND APPLICATIONS ATLANTA, GA, MAY, 14-16, 1997, PROCEEDINGS OF THE SYMPOSIUM ON SOLID MODELING AND APPLICATIONS, NEW YORK, ACM, US, vol. SYMP. 4, 14 May 1997 (1997-05-14), pages 248-254, XP000724309 ISBN: 0-89791-946-7 whole document</p> <p>-----</p> <p style="text-align: center;">-/-</p>	1-10

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Patent family members are listed in annex.

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Date of the actual completion of the International search	Date of mailing of the International search report
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Name and mailing address of the ISA	Authorized officer
European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Deltorn, J-M

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
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